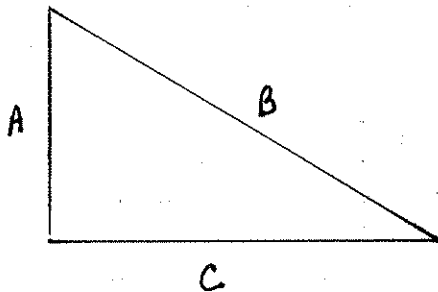


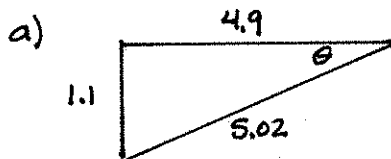
# PRACTICE, PRACTICE, PRACTICE - TRIGONOMETRIC FUNCTIONS + PYTHAGOREAN THEOREM

1. PYTHAGORAS ASKS YOU TO SOLVE FOR THE UNKNOWN SIDE GIVEN THE INFORMATION BELOW:



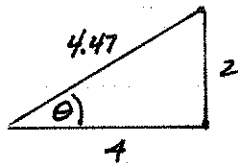
- (a)  $A = ?$     $B = 121\text{m}$     $C = 110\text{m}$   
 (b)  $A = 6\text{km}$     $B = ?$     $C = 3.5\text{km}$   
 (c)  $A = 2.5\text{m/s}$     $B = ?$     $C = 10.5\text{m/s}$   
 (d)  $A = 125\text{mm}$     $B = 150\text{mm}$     $C = ?$

2. GIVEN THE TRIANGLES BELOW, SOLVE FOR THE GIVEN TRIG FUNCTION AND THEN SOLVE FOR THE ANGLE  $\theta$ .



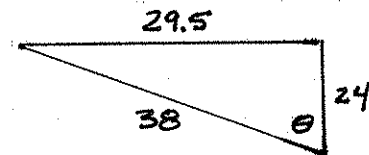
$$\cos \theta = ?$$

$$\theta = ?$$



$$\sin \theta = ?$$

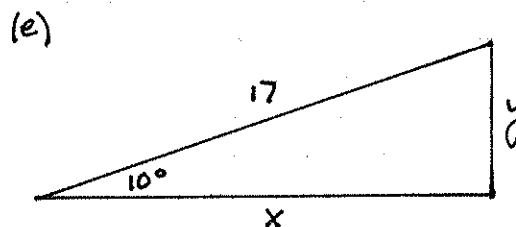
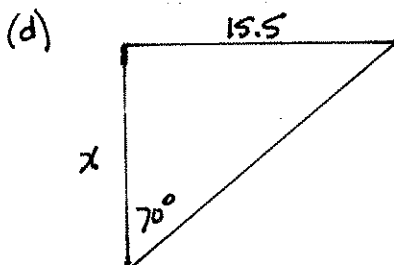
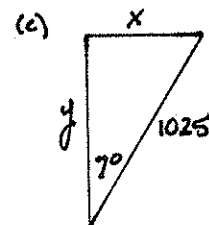
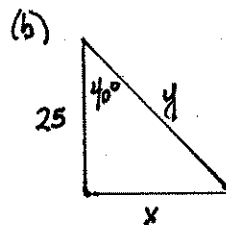
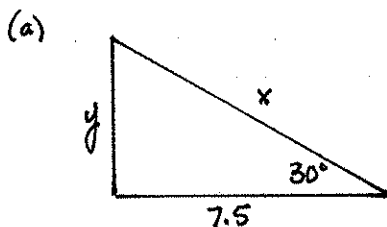
$$\theta = ?$$



$$\tan \theta = ?$$

$$\theta = ?$$

3. SOLVE FOR THE DIMENSION OF EACH SIDE USING ONLY TRIG. FUNCTIONS.



4. USE TRIG. / PYTHAGOREAN THEOREM TO SOLVE ANY QUESTION LAST NIGHT THAT YIELDED RIGHT ANGLE TRIANGLES.